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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,827	02/11/2002	John Hefti	002900US	4651
7590 09/23/2004			EXAMINER	
MDS Sciex 1170 Veteran's	Blvd.		CHIN, CHRIS	STOPHER L
Suite 200			ART UNIT	PAPER NUMBER
South San Francisco, CA 94080			1641	, , , , , ,
			DATE MAILED: 09/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/073,827	HEFTI ET AL.			
		Examiner	Art Unit			
		Christopher L. Chin	1641			
The MAILIN Period for Reply	IG DATE of this communication app	pears on the cover sheet with the c	correspondence address			
THE MAILING DA - Extensions of time may after SIX (6) MONTHS - If the period for reply sp - If NO period for reply is - Failure to reply within the Any reply received by the	TATUTORY PERIOD FOR REPLY TE OF THIS COMMUNICATION. be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. becified above is less than thirty (30) days, a reply specified above, the maximum statutory period where set or extended period for reply will, by statute the Office later than three months after the mailing ustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from y, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1) Responsive	•					
, —	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claim	S					
4a) Of the ab 5) ☐ Claim(s) 6) ☑ Claim(s) <u>4-2</u> 7) ☐ Claim(s)	4) Claim(s) 4-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 4-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers		·				
9) The specification is objected to by the Examiner.						
10)☐ The drawing	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Applicant ma						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S	.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References	· · · · · · · · · · · · · · · · · · ·	4) 🔲 Interview Summary Paper No(s)/Mail D				
	n's Patent Drawing Review (PTO-948) e Statement(s) (PTO-1449 or PTO/SB/08) e		Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 4-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 is vague. In line 1, the recitation of "the system-independent permittivity" lacks antecedent support. The body of the claim is not consistent with the preamble. The preamble recites a method for determining the system-independent permittivity of a molecular event but the last step of the method recited in the body of the claim is directed to computing the permittivity of a test sample. Step (d) of the method is not clear as to what is entailed in "applying the defined permittivity coefficients to the difference between the output parameters" because the term "applying" is not defined.

Claim 8 is vague because it is not clear as to how the step of measuring the complex permittivity of the calibration samples fits into the method of claim 4.

Claim 10 is vague because it is not clear as to how the step of calculating real and imaginary permittivity difference quantities fits into the method of claim 4.

Claim 11 is vague and confusing. Claim 11 recites another set of steps (a)-(d) even though claim 4, from which claim 11 ultimately depends, already recites a set of steps (a)-(d). In line 2, the recitation of "the critical coupling point" lacks antecedent support.

Claim 12 is vague because it is not clear as to how the step of measuring resistance and reactance parameters fits into the method of claim 4.

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Claim 14 is vague because it is not clear as to how the step of measuring real and imaginary components of an s-parameter measurement fits into the method of claim 4.

Claim 18 is vague because it is not clear as to how the step of deriving three bilinear calibrated coefficients fits into the method of claim 4.

Claim 19 is vague because it is not clear as to how the step of measuring the reflection coefficient of the test sample fits into the method of claim 4. Also, the recitation of "the reflection coefficient" lacks antecedent support.

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Patent 6,586,946 discloses a similar method.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher L. Chin whose telephone number is (571) 272-0815. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher L. Chin Primary Examiner

Christopher L. Chin

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9/19/04